



UNITED STATES PATENT AND TRADEMARK OFFICE

am

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/477,608	01/04/2000	WOLFGANG HILL	IP-23	9478
7590	08/26/2004			
WOLFGANG HILL ORTENBERGSTR 3 KARLSRUHE, 76135 GERMANY			EXAMINER ADDISON, KAREN B	
			ART UNIT 2834	PAPER NUMBER

DATE MAILED: 08/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/477,608

Applicant(s)

HILL, WOLFGANG

Examiner

Karen B Addison

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 February 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 6 and 7 is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Allowable Subject Matter

Claim 6 and 7 are allowed as stated in the previous office action.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3 is rejected under 35 U.S.C. 103(a) as being as being unpatentable over Rosenberry (4392072) in view of Rosenberry(4,403401).

Rosenberry discloses in fig.1-3 an stator for an electric motor comprising: a non grain oriented stator (2) having a soft magnetic body (resin) and teeth (cobalt alloy) that are disposed towards an air gap possessing inhomogeneous properties in regards to the magnetic flux. Rosenberry also discloses, a region facing the air gap consisting of a material having higher magnetizability than the remaining region of the soft magnetic body (2) disposed more distant from the air gap, belonging to the same magnetic circuit and the and a soft magnetic body possessing in total, a larger cross section in direction of the flux than the sum of said teeth (grain oriented) that are disposed toward said air gap. It is inherent that the electric motor consist of a rotor and a stator therefore the motor will have at least one magnetic circuit and at least two structural groups that are moveable

Art Unit: 2834

against each other (rotor and stator) and separated by an air gap in regards to the magnetic flux. Rosenberg does not disclose the yoke consisting of crystalline material.

Rosenberg discloses in fig.1-6 a stator for an electric motor: a non-grain oriented stator (1) having a soft magnetic body and teeth (5) made of a crystalline material fig. 6(8) for the purpose of high magnetic induction. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the electric motor of Rosenberg with stator material of Rosenberg for the purpose of obtaining high magnetic induction in the stator.

Claims 4-5 rejected under 35 U.S.C. 103(a) as being unpatentable over Rosenberg in view of Rosenberg applied to claims 1-3 above, and further in view of Fanning (606974 A1)

Rosenberg substantially discloses the claim invention. However, Rosenberg does not disclose the soft magnetic body stacked in a tangential direction and the thickness of the sheet increases as the radius increases and the magnetic body consists of electric sheet of variable.

Fanning discloses in fig.6 a Laminated stator comprising: soft magnetic body(18) stacked in a tangential direction and the thickness of the sheet increases as the radius increases(56) and the magnetic body consists of electric sheets having a variable thickness for the purpose of providing a substantially continuous path circumferentially around the inner core(50a). Therefore, it would have been obvious to one having

Rosenberry with the soft magnetic body of Fanning for the purpose of providing a substantially continuous path circumferentially around the inner core.

Response to Arguments

Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection.

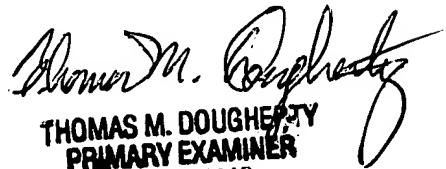
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen B Addison whose telephone number is 703-306-5855. The examiner can normally be reached on 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1317. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

KBA
8/26/04


THOMAS M. DOUGHERTY
PRIMARY EXAMINER
GROUP 2100